



iabin

Inter-American Biodiversity Information Network



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Protected Areas Thematic Network

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PATN Objectives

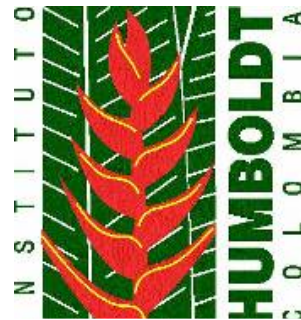
To promote the more effective sharing of information on protected areas within and between the countries of the Americas Hemisphere, building on and contributing to existing global experience in this area through close collaboration with the IUCN World Commission on Protected Areas and the UNEP-WCMC.

PATN Structure

Coordinating Institution



Consortium Board



PATN Progress

Year 1 – Planning phase

- Establishment of the PATN Consortium
- Initial contact with IABIN Focal Points
- Development of work plan

Year 2 – Screening phase

Consultancies:

1. Identify available databases and data sources;
2. Identification and prioritization of information needs and gaps;
3. Identification of PA management effectiveness tools and assessments;

Year 3 – Defining standards and protocols

Improving PA data management and sharing



PATN Progress

Year 3 – Improving PA data management and sharing

- **First version of PATN Web portal;**
- **Data digitizing tools;**
 - **WDPA:** New Web Based data entry and edit tool
- **Linking with national and regional initiatives;**

Year 3 – Improving PA data management and sharing

PATN Data Content Grant

- PATN launched in August 2008 the “Request for Proposals”
- US\$ 100,000 available for proposals (US\$ 10,000 max)
- Focus on “Data Digitizing Activities”
- Data must be compatible and accessible by PATN Database / World Database on Protected Areas (WDPA)
- Options of data management:
 - Use the WDPA web based interface;
 - Adopt the National Protected Areas Database System offered by Brazil.
 - Organize and send digitized data to PATN Coordinating Institution, following PATN Data Standards.

7 data content grants

- *Belize*
- *Chile*
- *Dominican Republic*
- *El Salvador*
- *Guatemala*
- *Jamaica*
- *Uruguay*

Country	Institution	Grant purpose	Amount USD
Belize	Land and Surveys Department	Implement, update and maintain an Internet-accessible Database of Belize's protected areas.	10,000
Chile	Comisión Nacional del Medio Ambiente	Update and standardize the digital cartography of 27 protected areas' entities in Chile.	14,079
Dominican Republic	Subsecretaría de Áreas Protegidas y Biodiversidad	Reconstruct update and maintain an Internet-accessible Database with the corresponding digital photographic registry of Dominican Republic's protected areas.	9,960
Guatemala	Consejo Nacional de Áreas Protegidas	Implement, update and maintain an Internet-accessible Database of Guatemala's protected areas.	10,000
Jamaica	National Environment and Planning Agency	Allow the creation and maintenance of a web-based PA database for Jamaica which will be compatible with the World Database for Protected Areas (WDPA)	10,000
El Salvador	Ministerio de Medio Ambiente y Recursos Naturales	Implement, update and maintain an Internet-accessible Database of El Salvador's protected areas.	9,500
Uruguay	Dirección Nacional de Medio Ambiente	Implement, update and maintain an Internet-accessible Database for the Information Datacenter of protected areas in Uruguay.	10,000

Year 4 – PATN under a new coordinating institution



Strategic Directions:

1. Improve protected areas data management
2. Optimise and promote access and exchange of protected areas data
3. Build Capacity for National and Regional data management

Strategic Direction 1

Improve protected areas data management

Activities:

- ✓ Review and update of countries' IABIN PA technical representatives and data providers
- ✓ Identify data gaps and priority countries for data collection
- ✓ Review and finalise of the IABIN PATN data structure and data management standards and protocols
- ✓ Generate and update the PATN database
- ✓ Develop an IABIN PATN webservice
- ✓ Develop and deploy a PATN data management generic tool

Strategic direction 2: Optimise and promote access and exchange of protected areas data

- ✓ Publication and dissemination of PATN standards and protocols
- ✓ Dissemination of the PATN data management generic tool
- ✓ Linkage of PATN database with other regional and national databases
- ✓ Redevelopment of IABIN PATN Web Portal

Strategic Direction 3: Build Capacity for National and Regional data management

- ✓ Identification of data management needs and gaps
- ✓ Development and dissemination of a document describing best practice for data management best practices.

PATN products

PATN database

- ✓ Developed by building on the existing WDPA technology
- ✓ Constantly being updated with new data from the Americas
- ✓ Contains the de facto standard on protected areas data collection in an operational and tested system
- ✓ In 2010, 04 countries with complete updates and 21 countries with partial updates

PATN Webportal

- ✓ Developed by building on the Protect Planet (protectplanet.org) technology
- ✓ Available at www.iabinpatn.org
- ✓ Allows users to explore and visualize protected areas through our map viewers and to download various data formats and statistics maps



PATN Webservice

✓ Allows the automatic data sharing

✓ Two types of web services developed:

1. Spatial data in the form of OGC standard web mapping services (WMS), web feature services (WFS) and custom tile services.
2. RESTful data application programming interface (API) to programmatically search and retrieve data.

✓ Types of requests include:

- Search the database using a key word and get the protected areas back that match the key word
- Geospatial API- query the database by place name.
- Detailed individual protected area API – Return pictures, Wikipedia articles and protected areas boundaries.



PATN Generic tool

✓ Allows countries to upload, edit, download and manage their protected areas data within the bounds of the PATN data standards.

✓ Built on top of the WDPA using the open source technology stack ruby on rails, PostGIS and Geoserver. Allows countries to manage their data in a simple step by step way.

1. Download the existing data from the PATN or WDPA
2. Alter the dataset on or offline using open source or proprietary GIS software
3. Upload the data to the WDPA
4. Reconcile the changed data against what is in the WDPA
5. Get a report outlining the changes
6. Instantly be part of the IABIN PATN and the protectedplanet.net website



PATN Future

- Strengthen (formalise?) communication with countries PA representatives;
- Improve coordination with other PATNs;
- Maintain and improve coordination with regional and global initiatives;
- Improve support for countries in data gathering and management;
- Ensure long-term sustainability of the network (e.g. formalising data sharing)

Thank You!
¡Gracias!
Obrigada!

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